Inclusive Jet Cross Section using the K_T algorithm with ~1fb^{-1}

Blessing talk (note 8138)

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IFAE-Barcelona

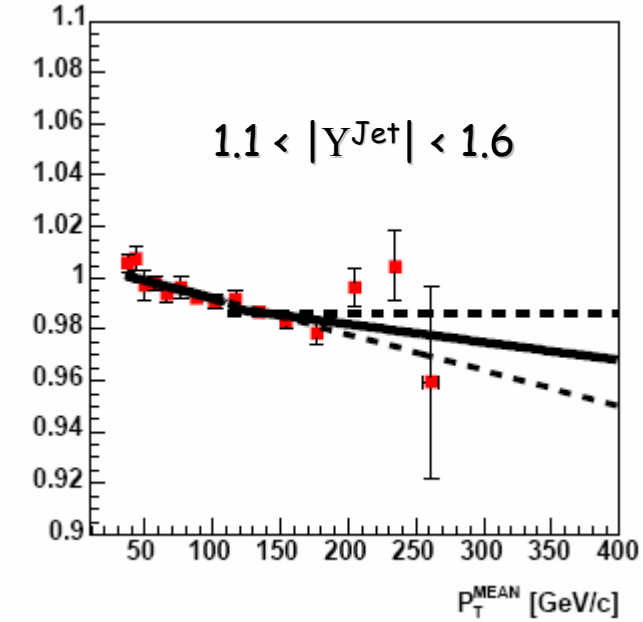
QCD Meeting March 17th

Between pre-blessing and blessing

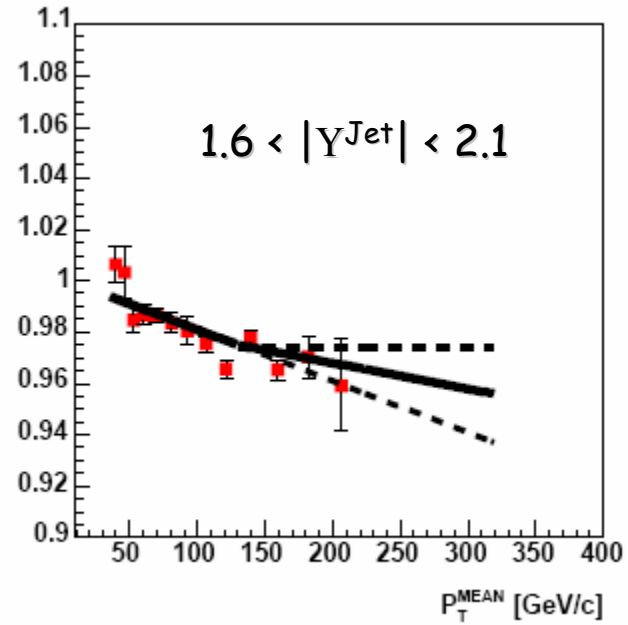
- No comments received

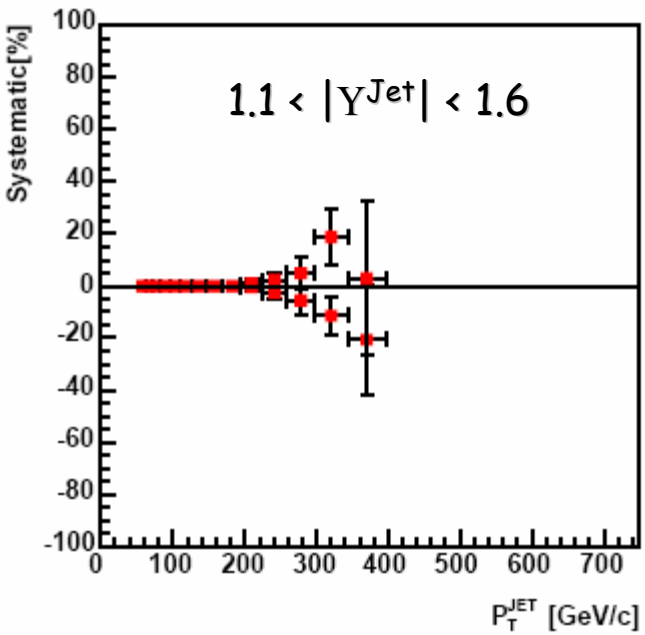
- Small changes in the plots for blessing:
  - Final NLO calculation
    - → More statistics, all PDFs and MRST2004
  - Included an additional systematic uncertainty related to the Dijet balance method
    - → 0.5% uncertainty in the jet energy scale

JES uncertainty :Dijet Balance correction

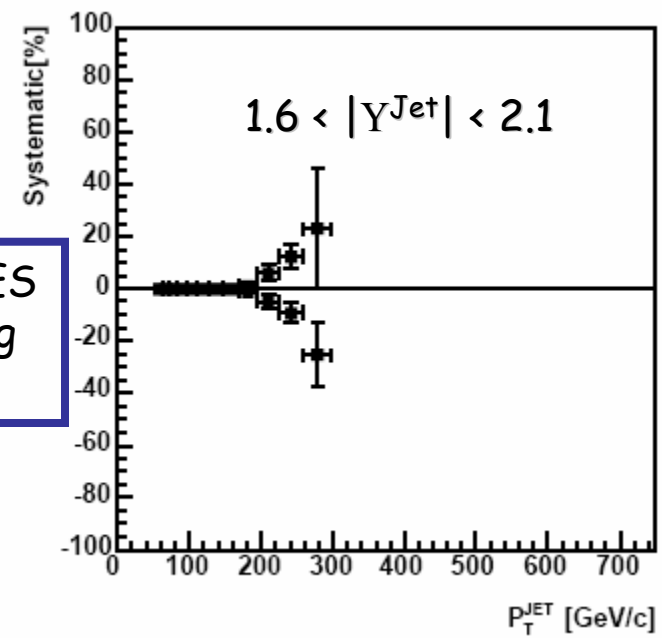


ΔP_T^{RAW} coming from the different corrections have been evaluated

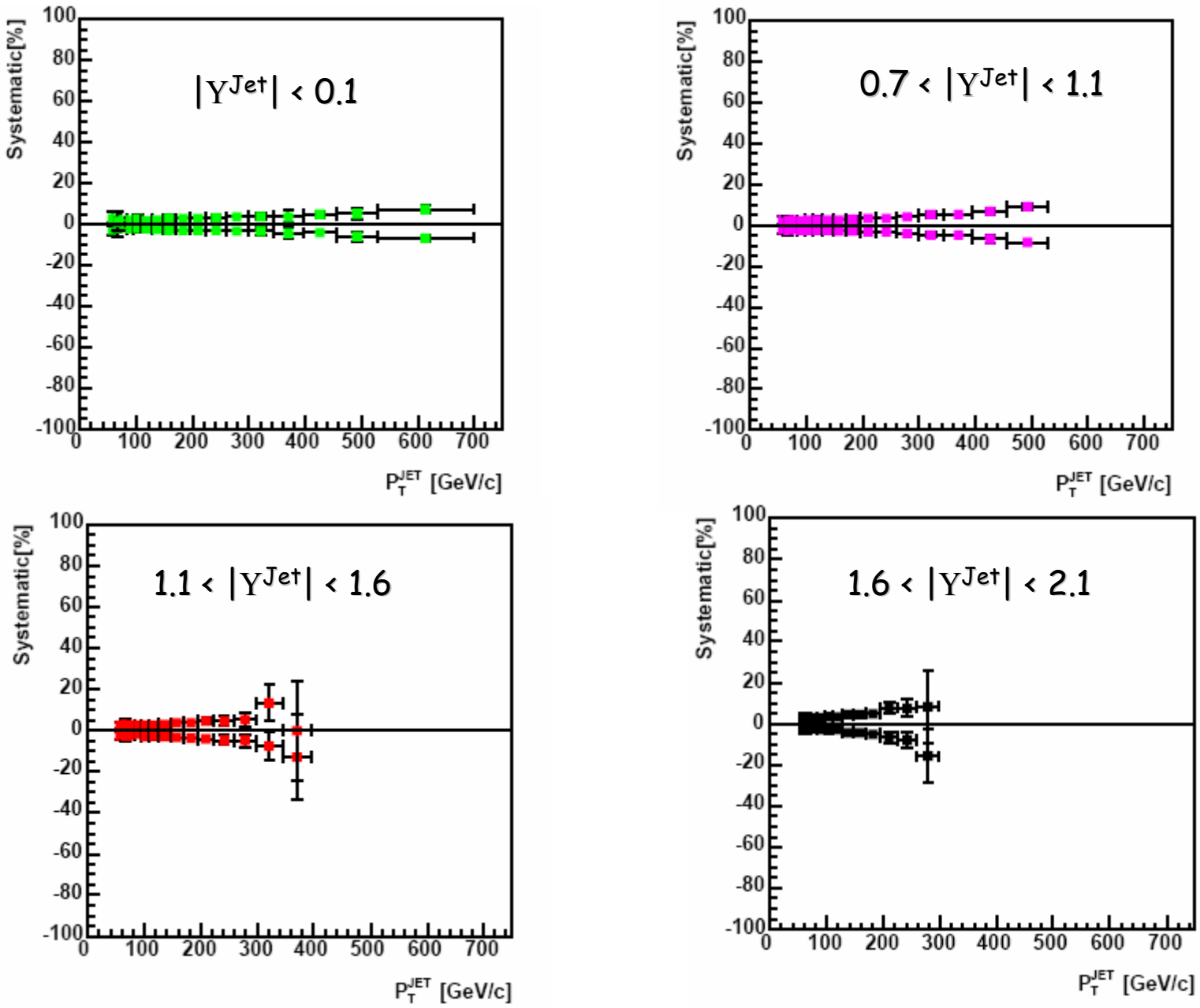




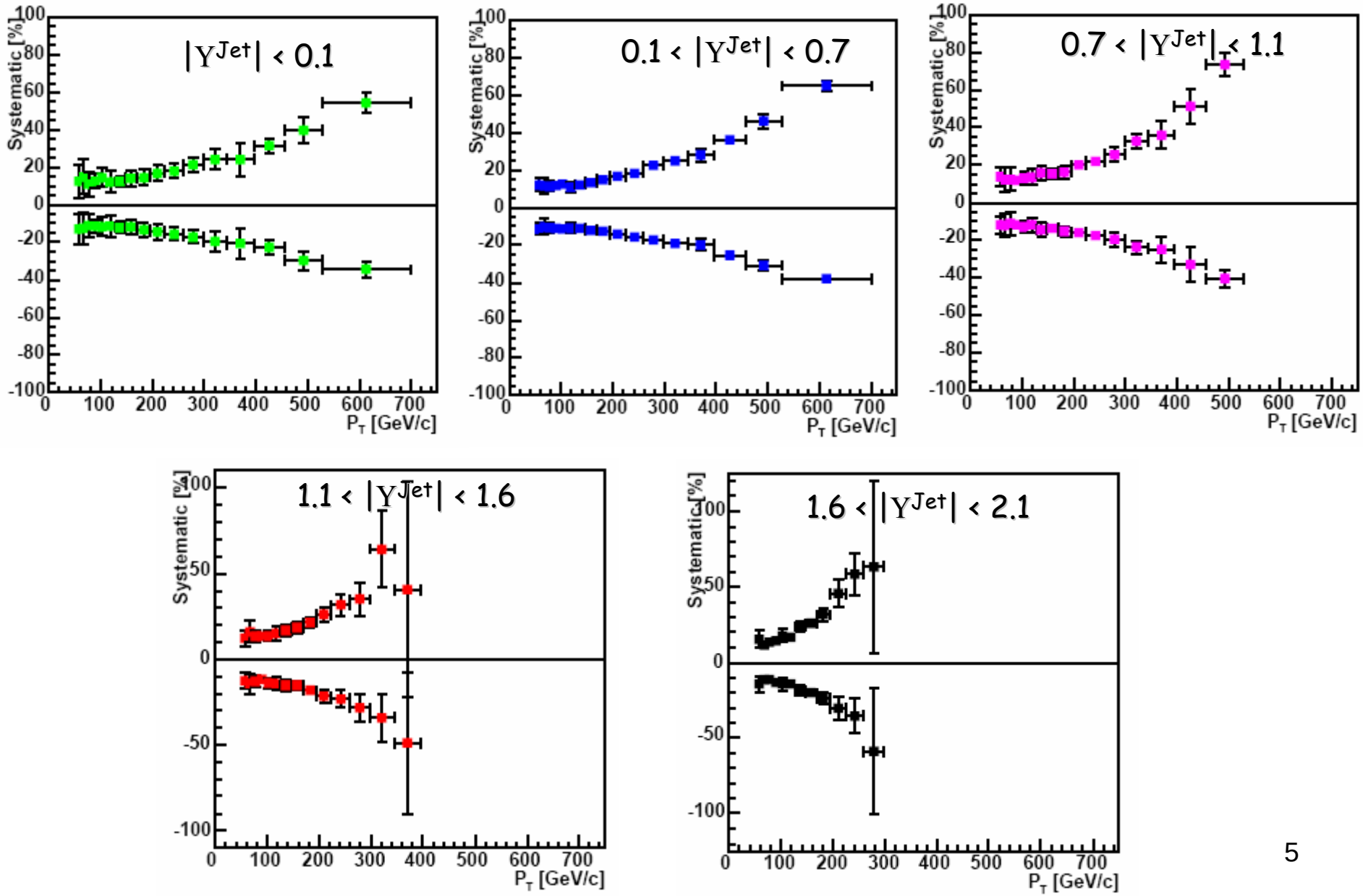
The associated JES uncertainty coming from the ΔP_T^{RAW}



JES uncertainty: Dijet Balance method

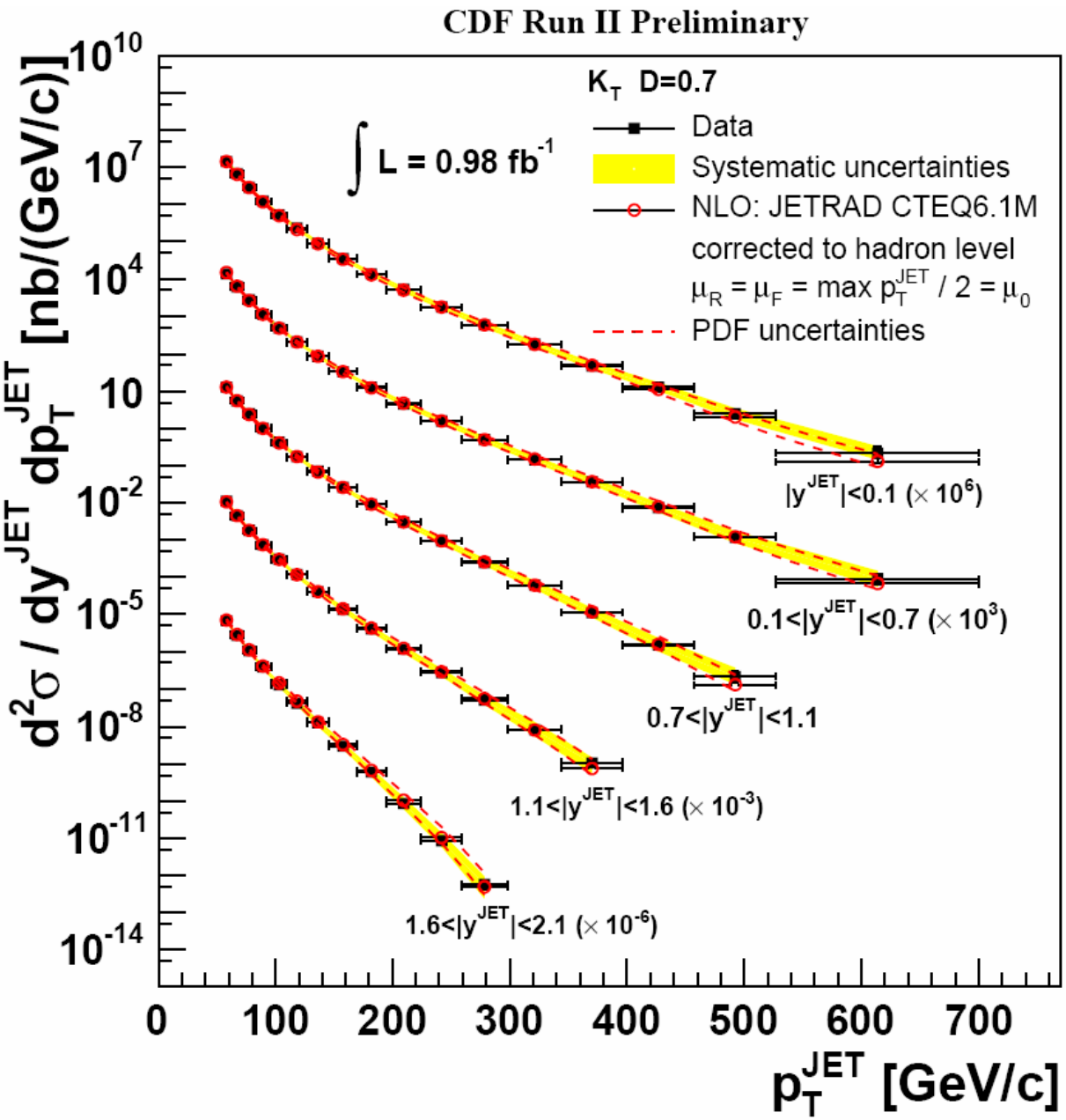


Global Systematic uncertainties

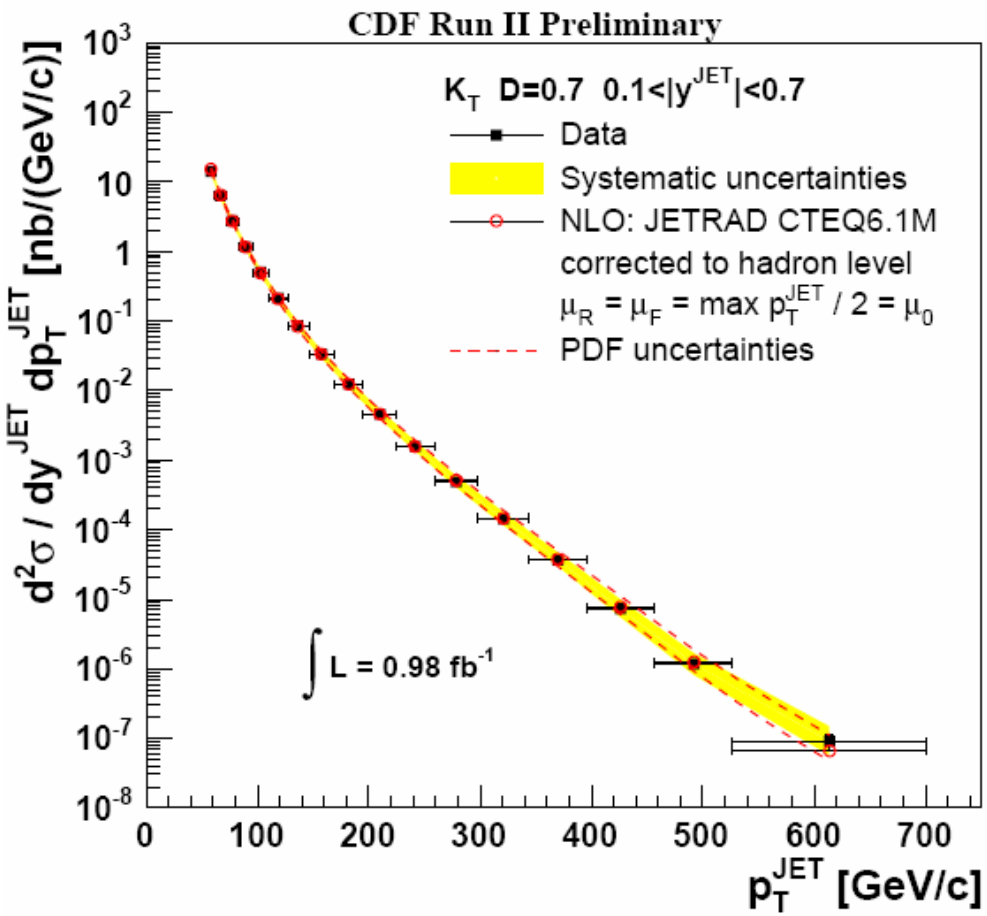


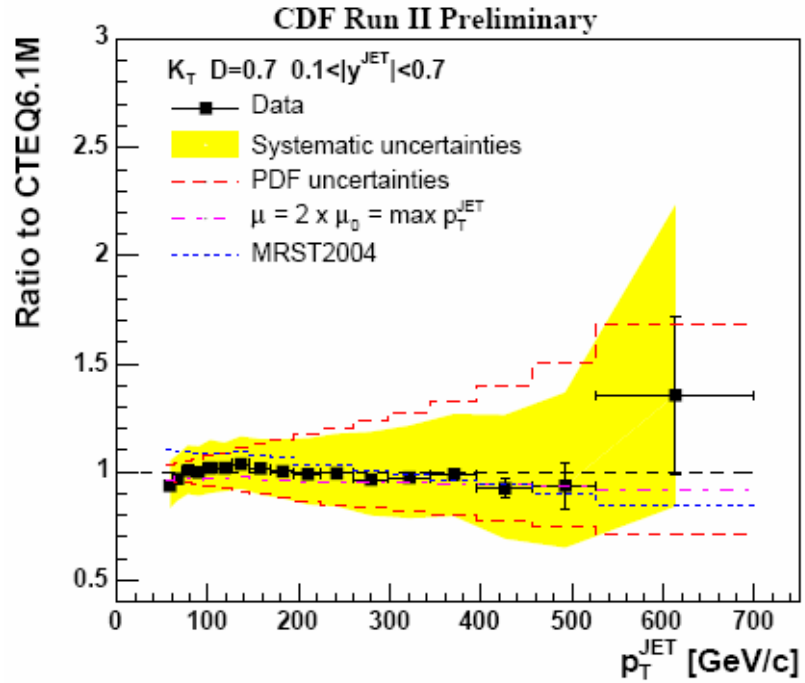
For blessing

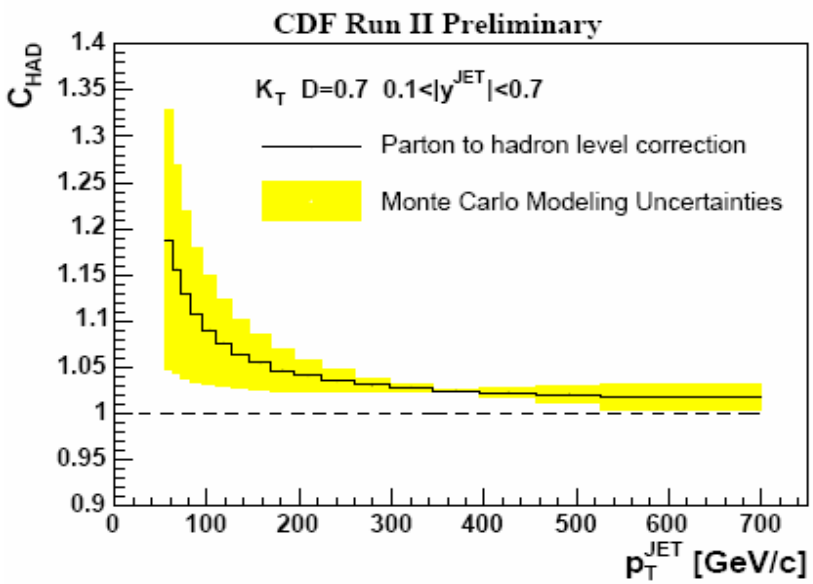
Results $|y^{Jet}| < 2.1$



For blessing Results: $0.1 < |Y^{jet}| < 0.7$

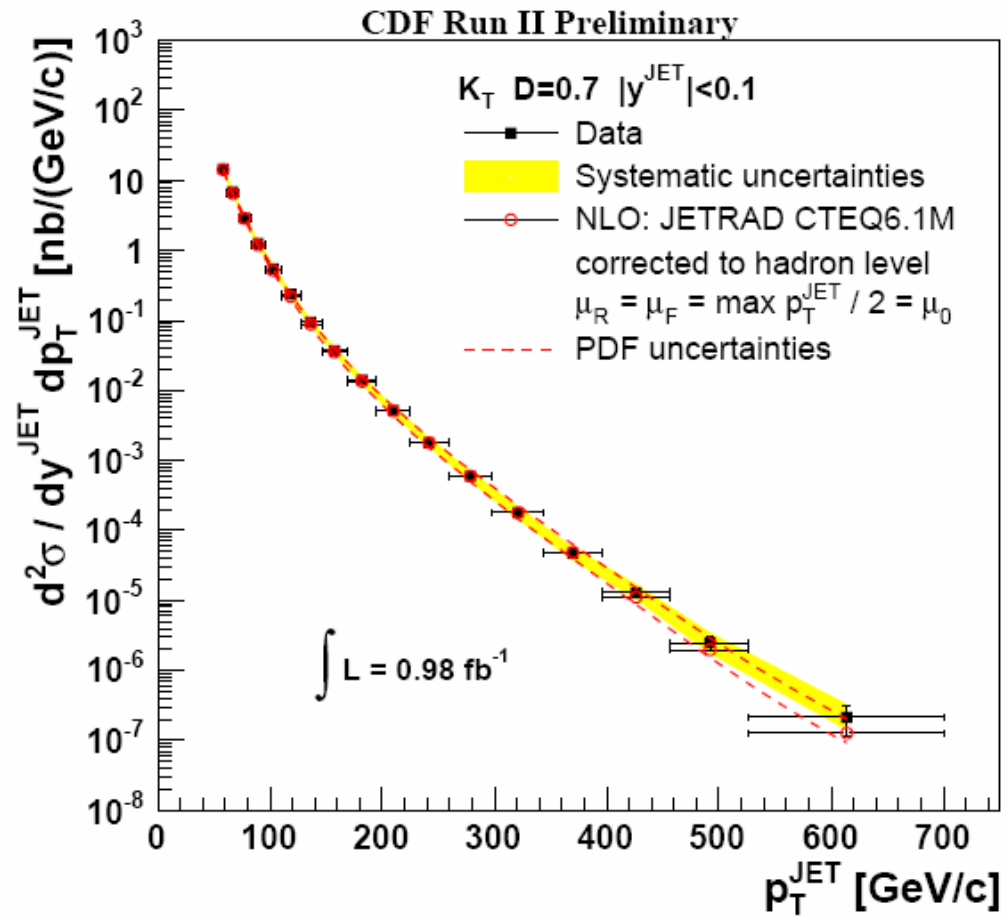


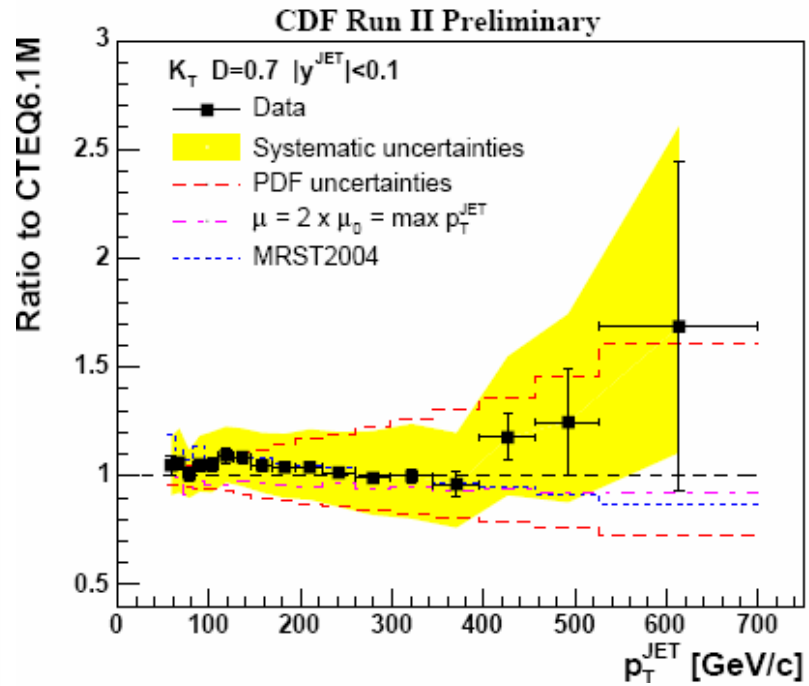


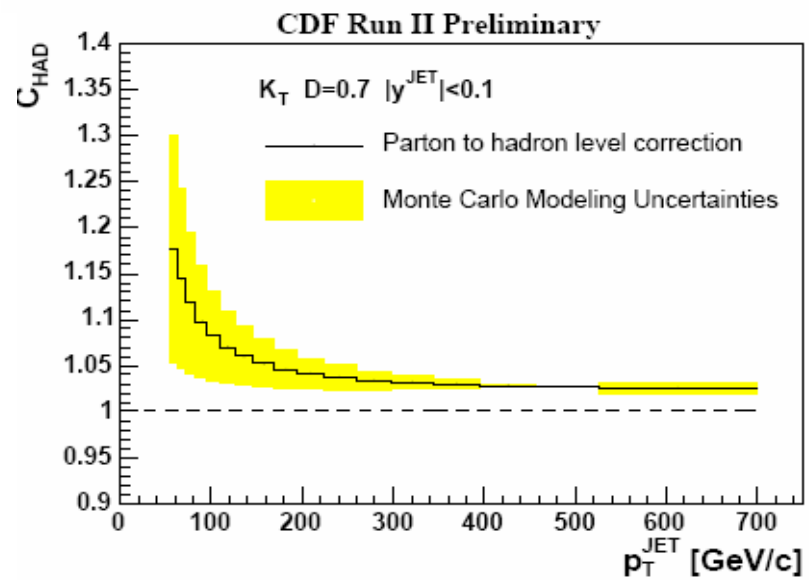


For blessing

Results: $|Y^{jet}| < 0.1$

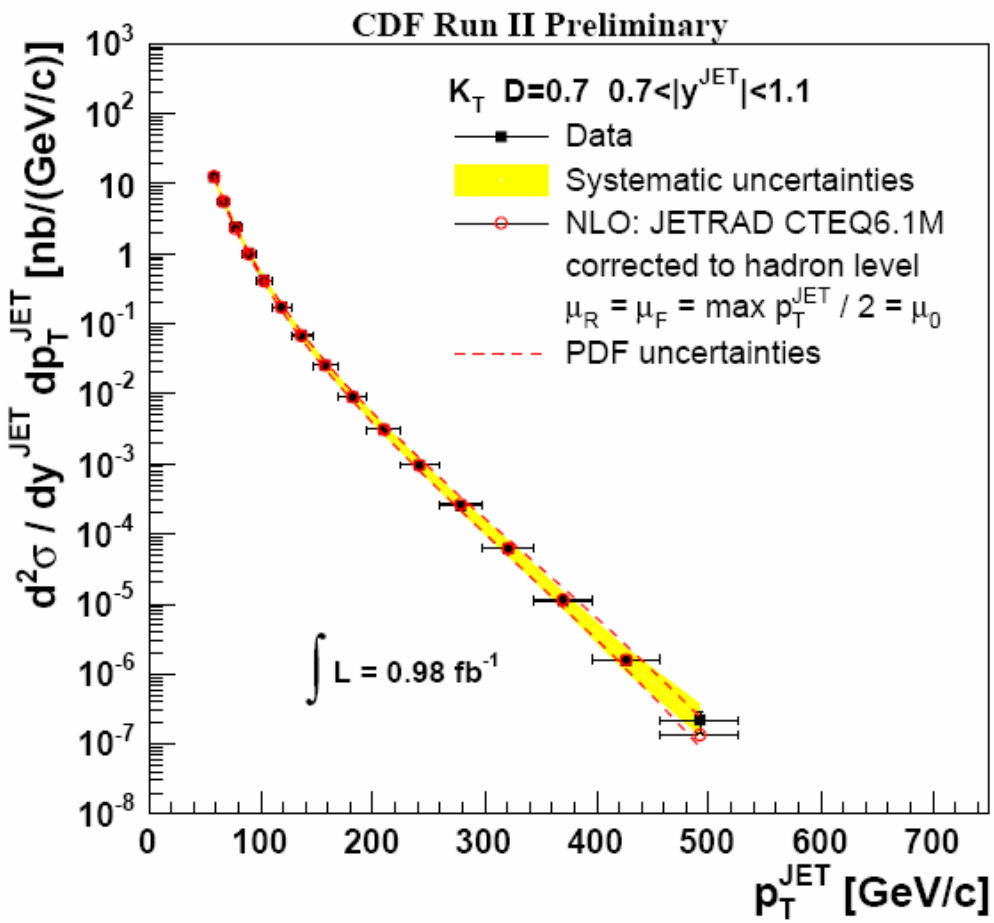


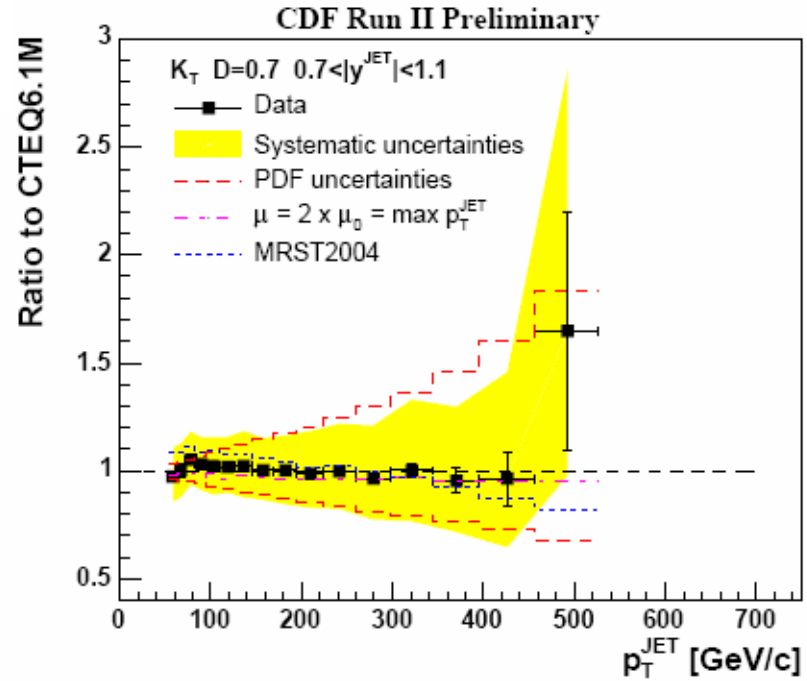


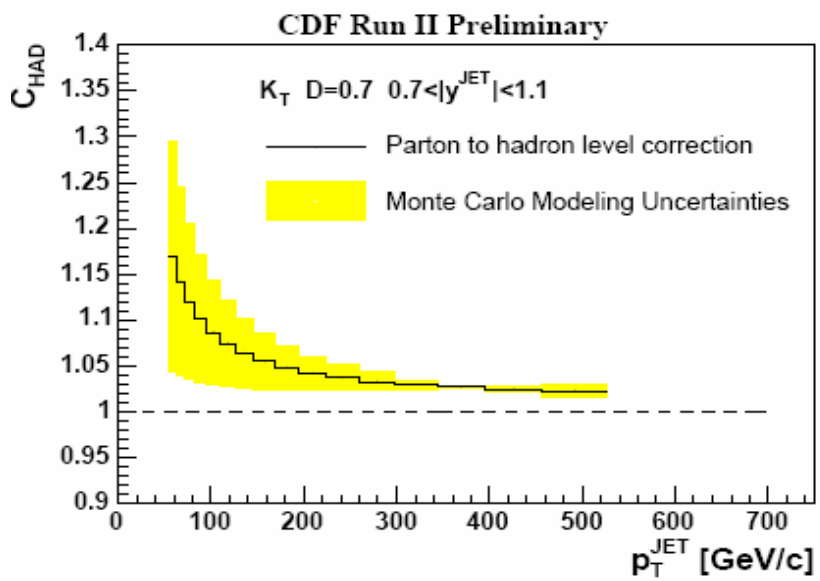


For blessing

Results: $0.7 < |Y^{jet}| < 1.1$

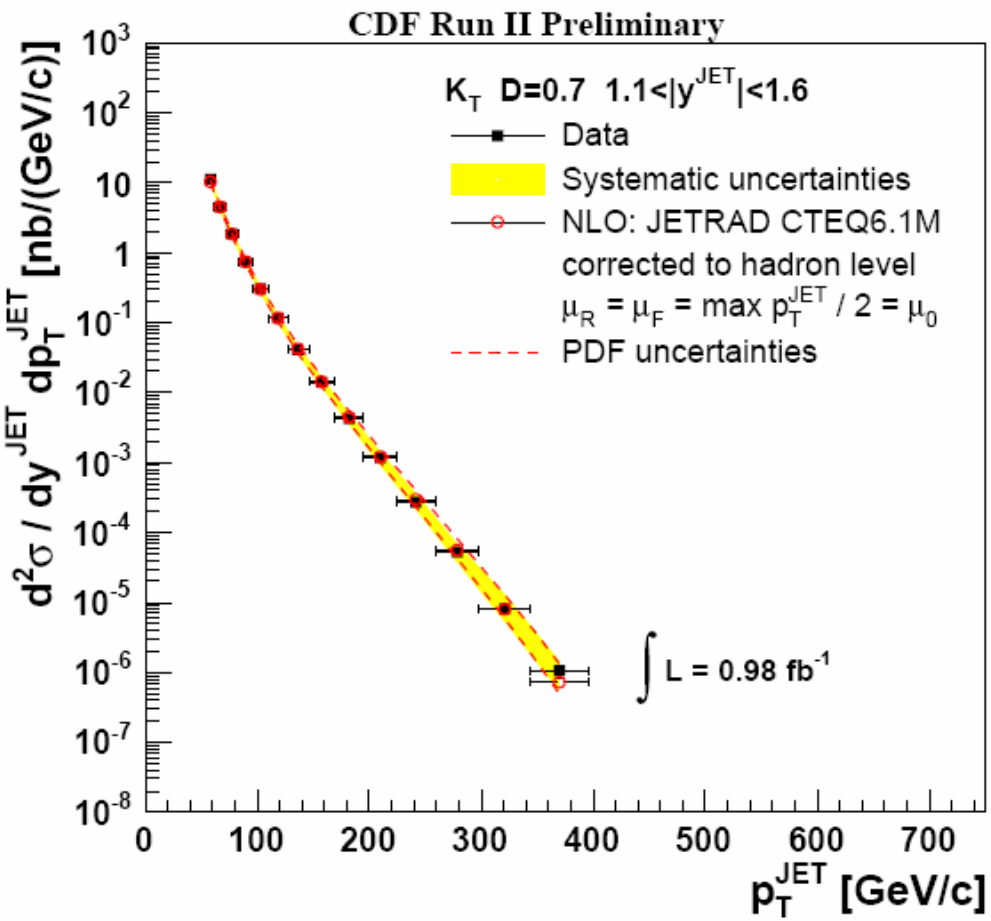


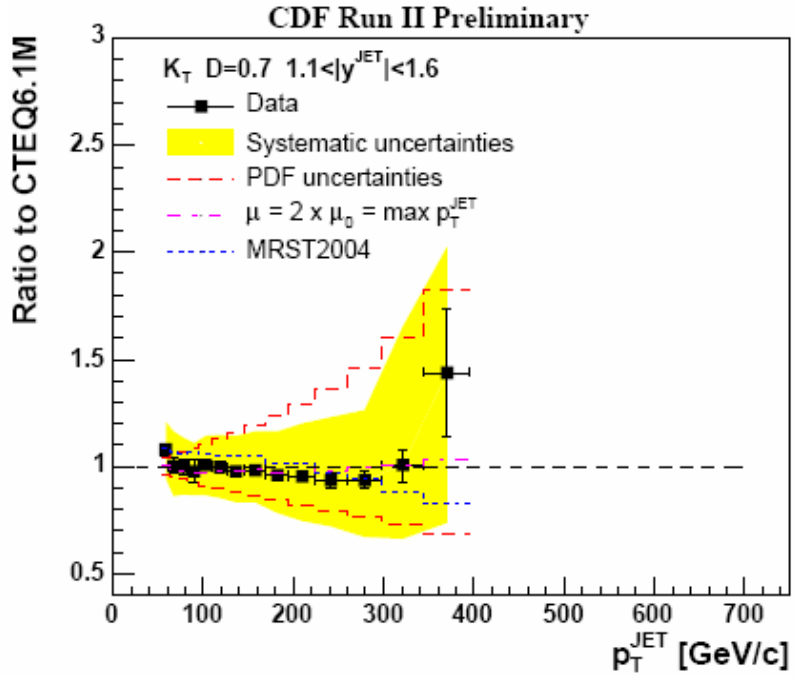


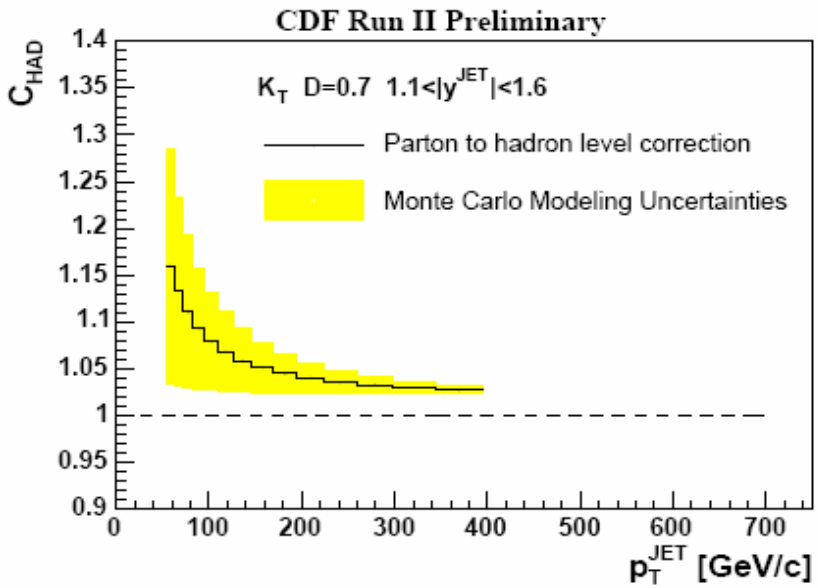


For blessing

Results: $1.1 < |Y^{jet}| < 1.6$

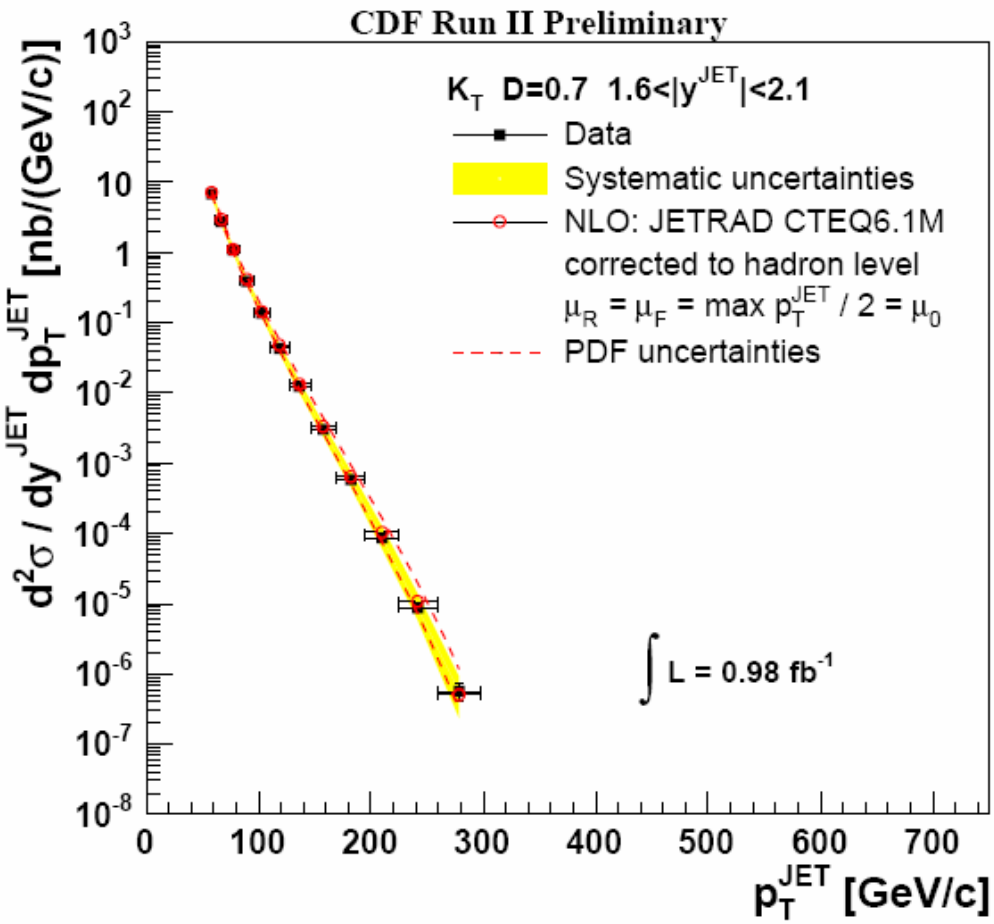


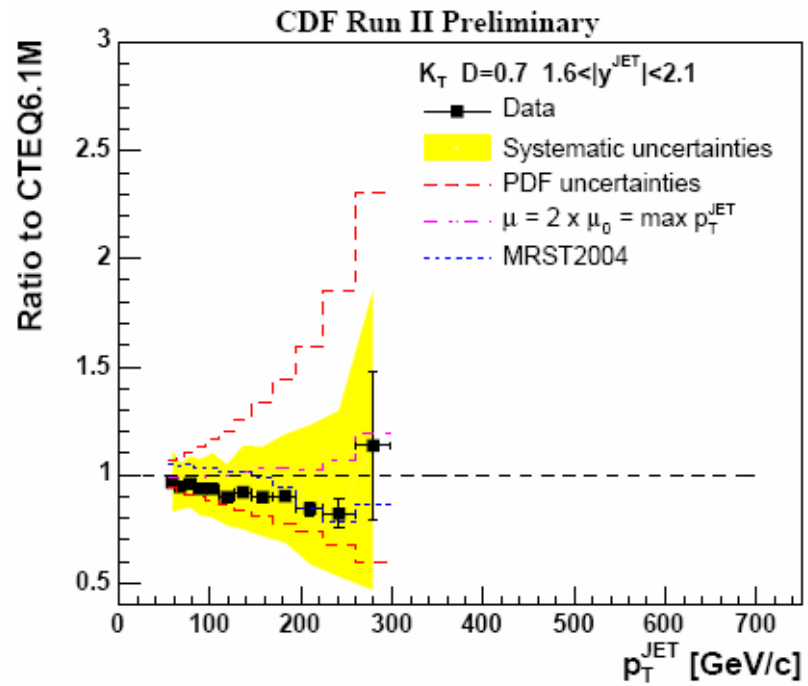


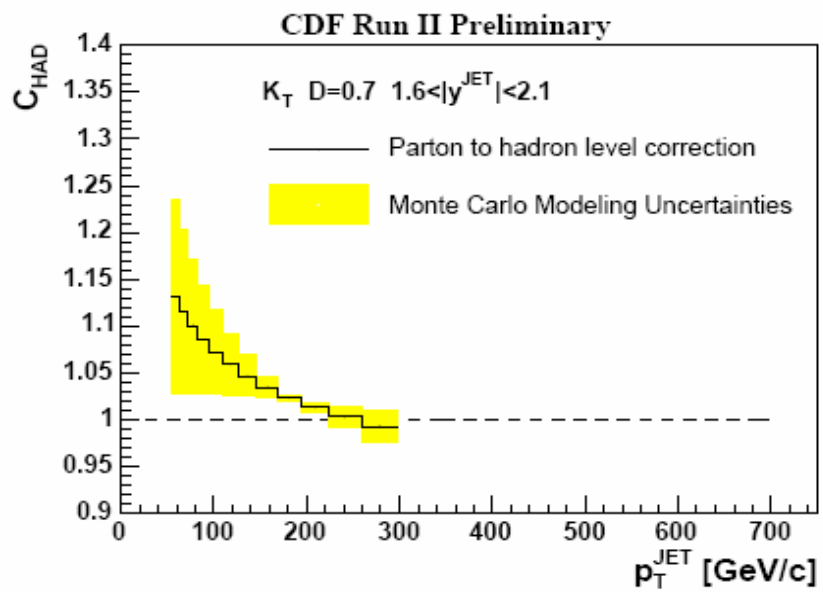


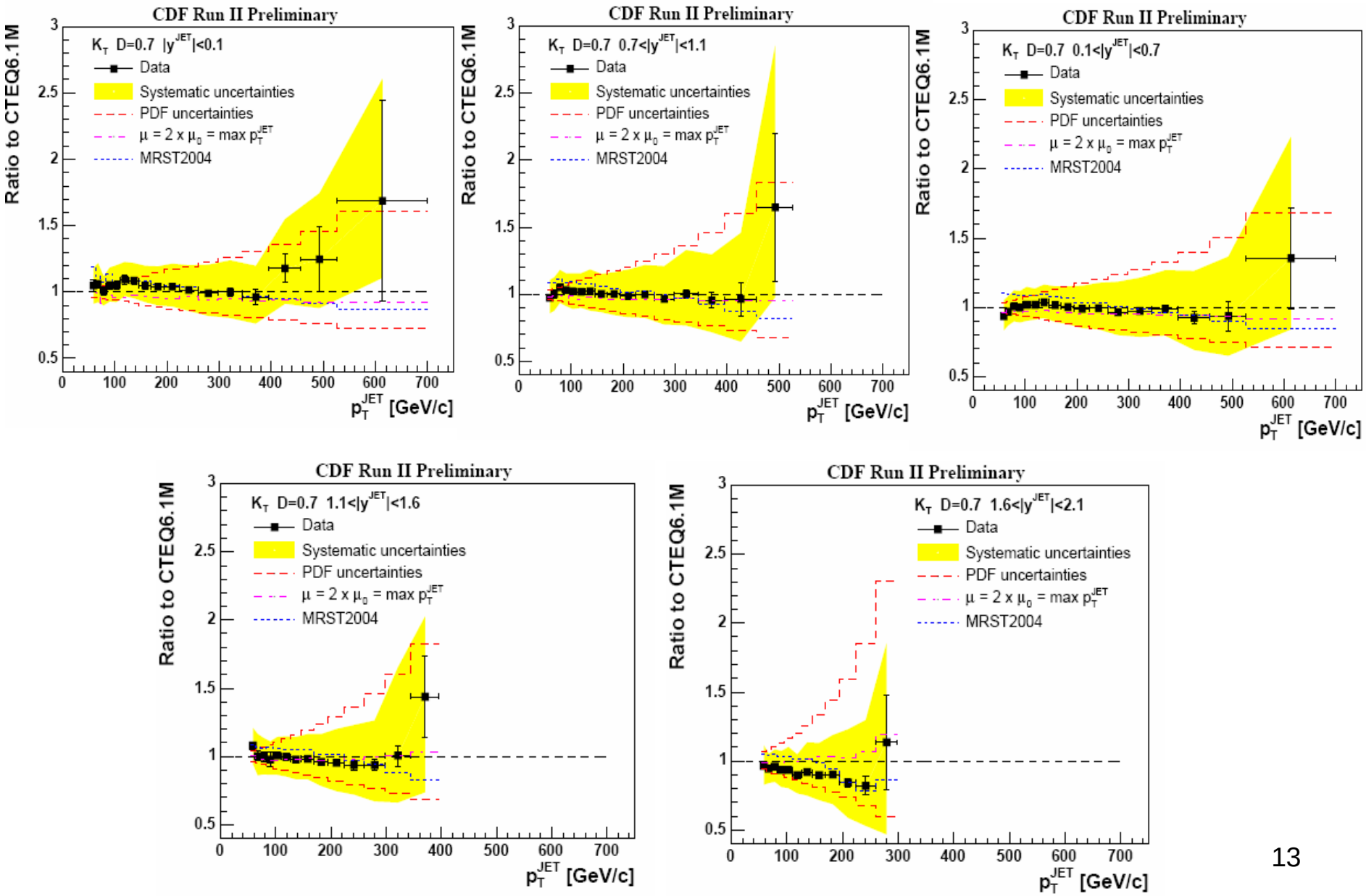
For blessing

Results: $1.6 < |Y^{jet}| < 2.1$







Back Up

Ratio Data/Theory